

MIDIVERB

Instruction Manual



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INSTALLATION:

REAR VIEW



The Midiverb connects easily between any line-level signal source and any line-level destination such as a PA mixer or recording console. Mixing dry and reverb signals is accomplished by use of the mix control at the rear of the unit. The dry signal routed through the mix control is maintained in stereo. If a stereo result is desired and the source is mono, route the mono signal to both inputs. A simple 'Y' cord will accomplish this and allow the dry signal to appear in both channels equally with the reverb in stereo.

This is a particularly simple setup when adding ambience to a drum machine without requiring console sends and receives. The only requirement here is that the signal source have an output level control so that proper driving levels can be set.

When connecting to the sends and receives of a console, rotate the mix control to full reverb (counter-clockwise from rear), the deepest returns will be available for mixing at the board.

The spread of the Midiverb's output stereo image is wide. While effective in opening up a clear mono space in a mix, the spread can easily be narrowed by the use of the mixer's reverb return pan pots.

LEVELS:

To minimize noise and distortion in any application, the signal driving the Midiverb should be adjusted so that the green LED is on frequently, with the red LED briefly flashing on transients only. Avoid 'filling up' the reverb with continuous program at long (>10 sec.) decay times. This will

often lead to overloading of the internal math processor with subsequent distortion.

Many sources such as electric guitars and acoustic instrument pickups have insufficient output level to adequately drive the Midiverb. In such cases a simple pre-amp may be required. Where possible, a limiting preamp will level the abrupt transients characteristic of these instruments, providing control over transient distortion.

OPERATION:

The Midiverb contains 63 preset, user selectable programs. Programs may be selected by the buttons on the front panel, stepping through the program list, or by MIDI patch change data from any MIDI controlling device. Defeating the unit and turning off its reverb output is accomplished by pressing the DEFEAT button once. Pressing this button again will resume reverb operation. From MIDI, any patch change number from 64 to 128 will also force the Midiverb into defeat mode.

The MIDI channel the Midiverb will respond to is set by pressing the MIDICHAN button and simultaneously stepping the number up or down by the UP/DOWN buttons. When displaying the MIDI channel number, the display will show a lighted segment in the upper left corner of the display.

THE PROGRAMS:

Programs 1 to 50 are reverb algorithms designed to cover a wide range of applications. Programs 51 to 63 are for special effects. The reverb programs are defined by decay time, size, and spectral emphasis, respectively. Large programs tend to have some associated pre-delay, typical of large spaces. Small programs tend to be more immediate, but can sound hard or ringy at unnaturally long decay times.

Bright programs carry treble throughout the length of the decay, while warm programs attenuate the treble as the decay proceeds. Dark programs roll the treble off quickly, leaving only deep bass at the end of the decay.

INSIDE THE MIDIVERB:

At the heart of the Midiverb is a very high speed computer capable of 3,000,000 memory accesses/operations per

second, a figure higher than most digital reverbs on the market today. Classic signal processing computer architectures with this kind of power are very expensive. The Midiverb utilizes a new kind of computer architecture called RISC. Standing for Reduced Instruction Set Computer, RISC architecture allows an extremely simple, high speed computer to accomplish remarkably complex tasks. The Midiverb is not just another digital reverb; it is a new approach to digital signal processing technology.

FCC NOTICE:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the product with respect to the receiver
- Move the product away from the receiver
- Plug the product into a different outlet so that product and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: *"How to Identify and Resolve Radio-TV Interference Problems."*

This booklet is available from the:
U. S. Government Printing Office
Washington, D. C. 20402
(Stock Number 004-000-00345-4)

THE PROGRAMS

1	.2 Sec.	SMALL	BRIGHT	22	1.6 Sec.	SMALL	DARK	43	5 Sec.	LARGE	WARM
2	.2 Sec.	SMALL	WARM	23	1.6 Sec.	LARGE	BRIGHT	44	8 Sec.	LARGE	BRIGHT
3	.2 Sec.	MEDIUM	BRIGHT	24	1.6 Sec.	MEDIUM	BRIGHT	45	8 Sec.	LARGE	WARM
4	.3 Sec.	SMALL	BRIGHT	25	1.8 Sec.	LARGE	DARK	46	10 Sec.	LARGE	BRIGHT
5	.3 Sec.	SMALL	WARM	26	1.8 Sec.	LARGE	BRIGHT	47	10 Sec.	LARGE	WARM
6	.4 Sec.	MEDIUM	BRIGHT	27	1.8 Sec.	MEDIUM	WARM	48	16 Sec.	LARGE	DARK
7	.4 Sec.	MEDIUM	WARM	28	2.0 Sec.	LARGE	BRIGHT	49	18 Sec.	EX. LARGE	BRIGHT
8	.6 Sec.	SMALL	BRIGHT	29	2.0 Sec.	MEDIUM	WARM	50	20 Sec.	EX. LARGE	DARK
9	.6 Sec.	MEDIUM	WARM	30	2.0 Sec.	LARGE	WARM	51	GATED - 100 MS		
10	.6 Sec.	MEDIUM	DARK	31	2.5 Sec.	MEDIUM	WARM	52	GATED - 150 MS		
11	.8 Sec.	SMALL	BRIGHT	32	2.5 Sec.	LARGE	BRIGHT	53	GATED - 200 MS		
12	.8 Sec.	LARGE	WARM	33	2.5 Sec.	MEDIUM	DARK	54	GATED - 250 MS		
13	1.0 Sec.	SMALL	WARM	34	2.8 Sec.	SMALL	BRIGHT	55	GATED - 300 MS		
14	1.0 Sec.	MEDIUM	WARM	35	2.8 Sec.	MEDIUM	BRIGHT	56	GATED - 350 MS		
15	1.0 Sec.	LARGE	BRIGHT	36	3.0 Sec.	LARGE	BRIGHT	57	GATED - 400 MS		
16	1.2 Sec.	MEDIUM	WARM	37	3.0 Sec.	LARGE	WARM	58	GATED - 500 MS		
17	1.2 Sec.	SMALL	WARM	38	3.0 Sec.	MEDIUM	DARK	59	GATED - 600 MS		
18	1.2 Sec.	SMALL	BRIGHT	39	3.5 Sec.	LARGE	BRIGHT	60	REVERSE - 300 MS		
19	1.4 Sec.	LARGE	WARM	40	3.5 Sec.	MEDIUM	WARM	61	REVERSE - 400 MS		
20	1.4 Sec.	LARGE	DARK	41	4.0 Sec.	LARGE	DARK	62	REVERSE - 500 MS		
21	1.4 Sec.	MEDIUM	WARM	42	4.0 Sec.	MEDIUM	BRIGHT	63	REVERSE - 600 MS		

LIMITED WARRANTY:

ALESIS warrants this product to be free of defects in material and workmanship under normal use for a period of 90 days. The term of this warranty begins on the date of sale to the purchaser. Units returned for warranty repair to ALESIS or an authorized ALESIS warranty repair station will be repaired or replaced at manufacturer's option, free of charge. This warranty is void if factory determines defect to be the result of abuse, neglect, alteration or attempted repair by unauthorized personnel. ALESIS assumes no responsibility for loss or damage, direct or consequential, that may result from this product failing to perform at any time. All units returned to ALESIS or an authorized ALESIS repair facility must be prepaid, insured, and properly packaged. ALESIS reserves the right to update any unit returned for repair. ALESIS reserves the right to change or improve design at any time without prior notice.

SPECIFICATIONS:

FREQUENCY RESPONSE	30 HZ TO 10KHZ ± 2 dB
DYNAMIC RANGE	75 dB (TYP, REVERB PGMS)
PROGRAMS	63 FIXED PROGRAMS
INPUT LEVEL	+6dBV PEAK, 1 INPUT DRIVEN 0 dBV PEAK, BOTH DRIVEN
OUTPUT LEVEL	+6dBV PEAK
INPUT IMPEDANCE	50 K OHMS
OUTPUT IMPEDANCE	600 OHMS
AUDIO CONNECTORS	RCA PHONO JACKS
POWER REQUIREMENTS	16V CENTER TAPPED TRANSFORMER, 800 mA.
MIDI CONNECTIONS	IN & THRU

ALESIS CORPORATION

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